

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P307215

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CA125-W2A-U-3000K**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P307215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-44-UNV-L82765-HRP-CA125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 3000K TUNABLE CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2966.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

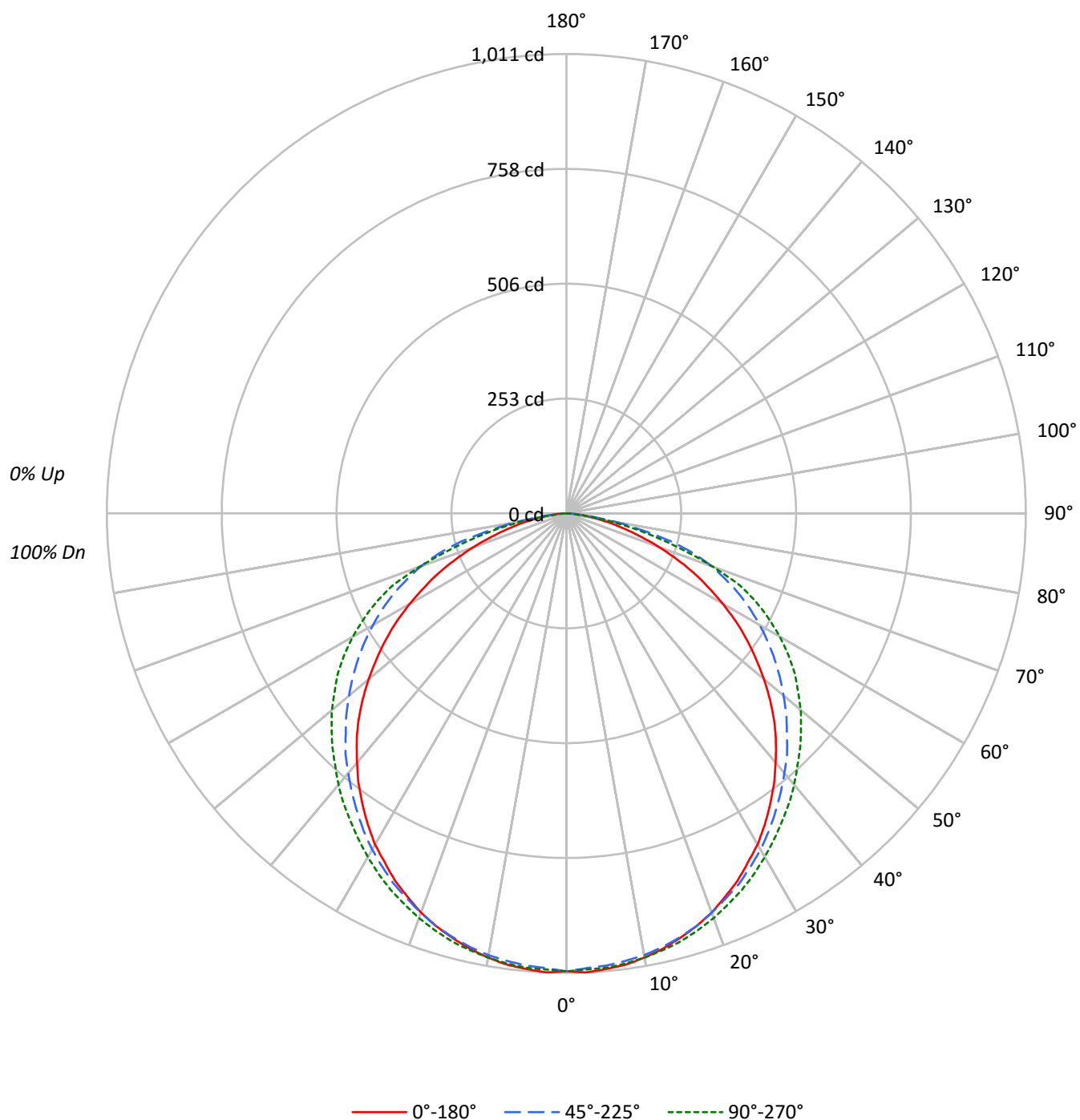
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	45	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	38	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2711	2711	2711
5°	2718	2698	2711
10°	2711	2696	2711
15°	2695	2689	2715
20°	2676	2679	2714
25°	2647	2670	2714
30°	2614	2655	2713
35°	2568	2635	2718
40°	2516	2621	2739
45°	2463	2612	2769
50°	2378	2612	2819
55°	2275	2625	2879
60°	2138	2645	2916
65°	1971	2672	2933
70°	1717	2678	2700
75°	1416	2492	2181
80°	1113	1791	1460
85°	865	692	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.2
10°-20°	273.6	9.2
20°-30°	415.5	14.0
30°-40°	503.5	17.0
40°-50°	530.6	17.9
50°-60°	495.3	16.7
60°-70°	395.8	13.3
70°-80°	217.8	7.3
80°-90°	38.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	784.5	26.5
0°-40°	1288.0	43.4
0°-60°	2313.9	78.0
0°-90°	2966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1006	1004	999	1005	1004	96
15°	967	967	965	975	975	273
25°	892	894	899	912	914	410
35°	782	789	802	823	827	489
45°	647	659	686	717	728	498
55°	485	509	560	599	614	433
65°	310	349	420	454	461	305
75°	136	195	240	215	210	147
85°	28	35	22	14	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.3	1007.3	1007.3	1007.3	1007.3
2.5°	1011.0	1008.2	1001.7	1007.3	1004.5
5°	1006.3	1003.5	998.9	1005.4	1003.5
7.5°	1001.7	997.9	993.3	1000.7	998.9
10°	992.3	989.5	986.8	993.3	992.3
12.5°	981.2	980.2	977.4	984.9	984.0
15°	967.2	967.2	965.3	974.6	974.6
17.5°	952.2	951.3	952.2	962.5	961.6
20°	934.5	934.5	935.5	947.6	947.6
22.5°	913.1	914.0	916.8	931.7	930.8
25°	891.6	893.5	899.1	912.1	914.0
27.5°	865.5	870.2	876.7	892.6	894.4
30°	841.3	844.1	854.3	869.2	873.0
32.5°	812.3	817.9	829.1	845.9	850.6
35°	781.6	789.0	802.1	822.6	827.3
37.5°	750.8	757.3	775.0	796.5	804.9
40°	716.3	727.5	746.1	770.4	779.7
42.5°	682.7	693.9	719.1	744.3	752.7
45°	647.3	659.4	686.4	717.2	727.5
47.5°	608.1	622.1	656.6	689.2	700.4
50°	568.0	585.7	623.9	660.3	673.4
52.5°	526.0	548.4	592.2	630.5	642.6
55°	485.0	509.2	559.6	598.8	613.7
57.5°	443.0	469.1	526.0	570.8	579.2
60°	397.3	429.0	491.5	530.7	541.9
62.5°	352.5	388.9	456.1	493.4	502.7
65°	309.6	348.8	419.7	454.2	460.7
67.5°	263.0	309.6	379.6	411.3	413.2
70°	218.2	272.3	340.4	355.3	343.2
72.5°	174.4	232.2	294.7	282.6	272.3
75°	136.2	194.9	239.7	215.4	209.8
77.5°	100.7	159.5	171.6	158.6	148.3
80°	71.8	125.9	115.6	98.9	94.2
82.5°	49.4	79.3	63.4	49.4	42.9
85°	28.0	35.4	22.4	14.0	11.2
87.5°	12.1	8.4	4.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)